

Metrology Interoperability Consortium Meeting

Double Tree Hotel Detroit Airport
Tuesday May 22, 2001
Meeting Minutes

The Metrology Interoperability Consortium Meeting was held in Detroit on May 22. The Agenda, Attendance List, Presentations and Action Items for 4 high priority projects are available at the NIST website. http://www.isd.mel.nist.gov/projects/metrology_interoperability/. Please read the documents for full understanding. These minutes primarily summarize actions agreed as a result of the meeting.

Welcome Bob Waite (Daimler Chrysler) welcomed the group and gave background on the process that led to the plan for formation of this consortium. The shrinking time to market required of all manufacturers necessitates the automation/simulation imperative. Standards have not kept up with operations. He discussed the MAA Common Driver Interface effort, with prime goals of achieving the ability to use software on any machine and how to implement programs through the process. He feels that this consortium effort, including a National Metrology Testbed, will add great value to the process of developing and testing metrology automation interoperability standards and implementations.

Motivation: Costs of Imperfect Interoperability Mike Gallaher (RTI) explained the Automotive Inoperability Study that identified Imperfect Interoperability Costs of \$1 Billion/year in the U.S. automotive supply chain, or \$78 per average vehicle. He discussed The Standard for Exchange of Product model data (STEP), with its economic impacts.

History and Action Plan Overview Al Wavering (NIST) gave an overview of the history that identified automated metrology system interoperability roadblocks, leading to this Consortium proposal. He also gave an overview of how the Distributed National Metrology Testbed will operate.

Analysis of Standards Needs for Automated Metrology Tom Kramer (NIST) and NIST coauthors had developed a detailed paper explaining the content and interrelationships required for automated metrology interoperability. This paper had been distributed to those who had preregistered for the meeting. His executive summary presented a list of 6 gaps/needs that was key to identifying an action list for this Consortium, as agreed later in the meeting.

Proposed Metrology Interoperability Consortium and Testbed Bob Waite presented the Consortium, goal, intent, principals and a list of activities to be performed. He also described the need for funding. He explained that funding of \$2500 per member group per year was

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necessary to join the Consortium. In addition a Task Force effort will pursue additional funding possibilities (i.e. U.S. Navy, NIST, DCX and Ford).

Consortium Management Don Duncan (Veridian) explained the suggested organizational structure for the consortium. Bob Waite will be the chairman of the Technical Committee, which will be the center of all the key work of the group. Duncan will act as the administrator. A draft Consortium Agreement was discussed to explain the treatment of Intellectual Property. A version of this Agreement for prospective members to use to join the Consortium is available at the NIST website.

Potential Projects A group effort by all meeting attendees developed a list of 6 potential projects that were considered the best for the Technical Committee of the Consortium to undertake. Through a voting process, the projects were prioritized by the group with the following results:

<u>Rank</u>	<u>Project</u>	<u>Votes</u>
1	Design Data	50
2	Measurement Data	25
3	International Coordination	17
4	Inspection Programs	15
5	Low Level Inspection API	10
6	Inspection Data Planning Requirements	8

The attendees decided to develop preliminary action plans for the top 4 ranked subjects. The meeting then broke into groups to develop action plans to address these 4 areas. Briefings listing the next steps for each project area are available at the website.

Next Steps

- ❑ A meeting will be set up in September, in conjunction with the MAA CMI Coordinating Committee Meeting.
- ❑ A formal request will be sent to prospective members of the consortium with an Agreement form and a request for the initial \$2500.
- ❑ A teleconference will be set up to include the Navy, NIST DCX and Ford to discuss an action plan for funding.
- ❑ A mechanism will be set up to get appropriate people to sign up for the action teams.